

Claim for Patent

[1]

An aluminum electrolytic capacitor comprising a bottomed cylindrical metal case for accommodating a capacitor element having driving electrolyte impregnated therein and an elastic sealing member for sealing the open portion of the metal case, wherein the sealing member is made from as a primary composition ethylene-propylene-diene three way copolymer rubber (EPDM) containing 30 - 70 wt% of ethylene and the glass transition temperature of the sealing member is in the range between  $-70^{\circ}\text{C}$  and  $-30^{\circ}\text{C}$ .

[2]

An aluminum electrolytic capacitor of claim 1, wherein the diene in the ethylene-propylene-diene three way copolymer rubber (EPDM) comprises at least one of 5-ethylidene-2-norbornene (ENB), di-cyclopentadiene (DCPD) and 1,4-hexadiene (HD) and the amount thereof is 3 - 6wt%.

[3]

An aluminum electrolytic capacitor of claim 1 or 2, wherein the ethylene-propylene-diene three way copolymer rubber (EPDM) is bridged with peroxide.

[4]

An aluminum electrolytic capacitor of claim 1, wherein at least one material selected from the group of ethylene glycol,  $\gamma$ -butyrolactone, propylene carbonate, sulfolane and water is used as the driving electrolyte, and further containing one or more electrolytic salt selected from organic acid, or ammonium salt of organic acid or inorganic acid, or primary - quaternary ammonium salt, imidazolium salt, imidazolinium and any salt of the derivatives thereof.